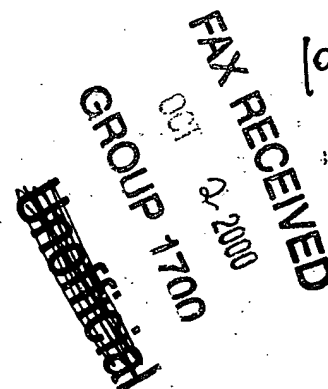


IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants: Michael Smith et al.
Serial No.: 09/309,396
Title: HOP EXTRACT OF DEFINED COMPOSITION
Filing Date: May 7, 1999
Group Art Unit: 1761
Examiner: Curtis E. Sherrer
Docket No.: YC1.P07



OFFICIAL

Yakima, Washington 98902
October 2, 2000

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington D.C. 20231

AMENDMENT AND RESPONSE TO OFFICE ACTION

Dear Examiner Sherrer:

In response to the Office Action, mailed on June 30, 2000, please amend the application as set forth below. The three month, shortened statutory response period for the above listed application expired September 30, 2000. The response date fell on a Saturday. Therefore, this response by telephonic facsimile is timely as transmitted on Monday, October 2, 2000 and requires no fees, per 37 CFR §§1.7 and 1.10.

component; and

the enriched alpha-acid hop extract having a total alpha-acids concentration greater than 60% by weight, a total beta-acids concentration less than 20% by weight, and a total hop essential oils concentration in excess of 1% by weight.—

—14. The enriched alpha-acid hop extract product of claim 13, wherein the enriched alpha-acid hop extract product has a total alpha-acids concentration of approximately 70% by weight.—

—15. The enriched alpha-acid hop extract product of claim 13, wherein the purified alpha-acids are formed from an alkali hydroxide fractionation of the whole hop extract.—

A2
no B2>

~~—16. An enriched alpha-acid hop extract product having:
a whole hop extract component produced through a carbon dioxide solvent extraction, the whole hop extract component including alpha-acids, beta acids and hop essential oils, hard resins and waxes;
a purified alpha acids component formed from a refined portion of the whole hop extract component; and
the enriched alpha acid-hop extract having a total alpha-acids concentration greater than 60% by weight, a total beta-acids concentration less than 20% by weight, and a total hop essential oils concentration in excess of 1% by weight.—~~